

CHAPTER 7

SUGGESTION FOR THE MODIFICATION OF APPARATUS

To set the pipe into an in-plane bending load or moment, the direction of applied force must coincide with the straight line joining the centers of the two steel balls. These two directions should be viewed at least in two planes preferably perpendicular to each other so that they may be in the same straight line. The telescope can be used to check this, because it is easy to apply and give an accurate result.

In this experiment the equipments that were used for measuring strains, such as strain gage bridge, selector switch and apex units were easy to use and could measure the values of strain with high accuracy. But if strain gages were shorter than those used, the gages for measuring circumferential strain would be able to be attached near the points where strains are required to be determined better than by using long gages, as the result more accurate values of strains at those points could be obtained.